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THE SILVER INSTITUTE

A WORLDWIDE ASSOCIATION OF MINERS, REFINERS, FABRICATORS AND MANUFACTURERS

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WASHINGTON, D. C. 20036

MINE PRODUCTION OF SILVER IN 1982 WITH PROJECTIONS FOR 1983 1984 1985 1986

THE SILVER INSTITUTE

MINE PRODUCTION OF SILVER

This report presents the mine production of silver in all of the 57 countries of the world which are known to be now producing silver from mines. Of these, 48 are designated as International Trade Countries in this presentation since there is a continual movement of silver between them. The other 9 are Eastern Countries which do not participate so much in the international movements of silver.

The first group is divided into three sections: the 5 countries each producing more than 20 million troy ounces per year; the 19 countries each producing 1 million to 20 million troy ounces per year; and the 24 countries each producing less than 1 million troy ounces per year.

In all sections, figures for the countries are arranged in the order of size of mine production of silver in 1982. For each country, actual production in 1982 is given, as well as projected production for each of the years 1983, 1984, 1985, and 1986. Amounts are shown in millions of troy ounces for each country and groups of countries, with metric ton equivalents for each group of countries.

The figures here presented refer to mine production of silver on the "accountable" basis, indicating the amount of silver which is credited to the mining company.

Appreciation is expressed for the extraordinary cooperation of the 233 mining and related enterprises which provided the information and projections used in this report. Their names are listed alphabetically by country.

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November 1983

MINE PRODUCTION OF SILVER

ON ACCOUNTABLE BASIS

IN MILLIONS OF TROY OUNCES

INTERNATIONAL TRADE COUNTRIES	---ACTUAL---	----------PROJECTED----------			
	1982	1983	1984	1985	1986
Countries producing more than 20 million troy ounces per year:					
Peru	53.2	55.2	57.1	58.1	58.3
Mexico	49.8	57.0	65.0	70.3	72.9
Canada	41.5	39.2	40.3	39.4	39.4
United States	40.2	43.1	47.7	48.7	48.3
Australia	29.2	33.5	33.5	32.1	31.5
Subtotal	213.9	228.0	243.6	248.6	250.4
Equivalent in metric tons	*6,652*	*7,091*	*7,576*	*7,731*	*7,787*
Change from previous year		+7%	+7%	+2%	+1%
Countries producing 1 million to 20 million troy ounces in 1982:					
Chile	12.3	14.4	13.6	13.9	14.2
Japan	9.8	9.9	9.9	9.9	9.9
South Africa	6.9	6.6	7.1	7.2	7.4
Sweden	6.0	6.3	6.5	6.6	6.5
Bolivia	5.5	5.9	6.9	7.0	7.0
Spain	5.5	5.5	5.5	5.6	5.6
Yugoslavia	3.3	3.3	3.4	3.4	3.4
Zaire	3.0	2.6	2.9	2.9	2.9
Morocco	3.0	3.1	3.0	3.0	3.0
South Korea	3.0	3.0	3.0	3.0	3.0
Namibia	2.8	3.1	3.3	3.4	3.4
Argentina	2.2	2.0	2.0	2.0	2.0
Honduras	2.2	2.2	2.2	2.2	2.2
Dominican Republic	2.1	1.3	1.1	1.1	1.0
Philippines	2.0	2.1	2.2	2.4	2.5
Italy	1.7	1.8	1.8	1.8	2.1
Greece	1.6	1.7	1.7	1.7	1.7
Papua New Guinea	1.4	1.6	1.4	1.5	1.6
German Federal Republic	1.3	1.1	1.2	1.2	1.2
Subtotal	75.6	77.5	78.7	79.8	80.6
Equivalent in metric tons	*2,351*	*2,410*	*2,448*	*2,482*	*2,507*
Change from previous year		+3%	+2%	+1%	+1%

Countries producing less than 1 million troy ounces in 1982:	---ACTUAL--- 1982	PROJECTED 1983	1984	1985	1986
Indonesia	.93	1.10	1.24	1.21	1.18
Zimbabwe	.90	.90	.90	.90	.90
Zambia	.89	.89	.89	.89	.89
France	.80	.51	.49	.49	.49
Finland	.75	.82	.79	.76	.60
Brazil	.75	.72	.70	.70	.69
Burma	.52	.52	.52	.52	.52
Malaysia	.47	.47	.47	.47	.47
India	.46	.46	.46	.46	.46
Denmark	.39	.43	.38	.40	.43
Ireland	.30	.35	.35	.35	.35
Turkey	.22	.22	.22	.22	.22
Colombia	.13	.13	.13	.13	.13
Tunisia	.12	.12	.12	.12	.12
Algeria	.11	.11	.11	.11	.11
El Salvador	.10	.10	.10	.10	.10
Great Britain	.10	.10	.10	.10	.10
Nicaragua	.08	.06	.05	.05	.05
Taiwan	.05	.06	.05	.05	.05
Portugal	.04	.04	.04	.04	.04
Ghana	.02	.02	.02	.02	.02
Ecuador	.01	.01	.01	.01	.01
Fiji	.01	.01	.01	.01	.01
Guatemala	.01	.01	.01	.01	.01
Subtotal	8.16	8.16	8.16	8.12	7.95
Equivalent in metric tons	*254*	*254*	*254*	*253*	*247*
TOTAL INTERNATIONAL TRADE COUNTRIES	297.7	313.7	330.5	336.5	339.0
Equivalent in metric tons	*9,258*	*9,756*	*10,279*	*10,465*	*10,543*
Change from previous year		+5%	+5%	+2%	+1%
EASTERN COUNTRIES					
Soviet Union	50.0	50.7	51.4	52.2	53.0
Poland	21.0	21.0	21.0	21.0	21.0
China People's Republic	2.3	2.4	2.5	2.6	2.7
North Korea	1.5	1.5	1.5	1.5	1.5
German Democratic Republic	1.4	1.5	1.5	1.5	1.5
Czechoslovakia	1.2	1.2	1.2	1.2	1.2
Romania	0.9	0.9	0.9	0.9	0.9
Bulgaria	0.8	0.8	0.8	0.8	0.8
Hungary	0.1	0.1	0.1	0.1	0.1
TOTAL EASTERN COUNTRIES	79.2	80.1	80.9	81.8	82.7
Equivalent in metric tons	*2,463*	*2,491*	*2,516*	*2,544*	*2,572*
Change from previous year		+1%	+1%	+1%	+1%
WORLD TOTAL	376.9	393.8	411.4	418.3	421.7
Equivalent in metric tons	*11,722*	*12,247*	*12,795*	*13,009*	*13,115*
Change from previous year		+4%	+4%	+2%	+1%

CONTRIBUTORS OF INFORMATION
ON
MINE PRODUCTION OF SILVER

IN 1982 WITH PROJECTIONS FOR 1983 - 1984 - 1985 - 1986

AUSTRALIA

Aberfoyle Limited,
Melbourne, Victoria
Australian Mining & Smelting Ltd.,
Melbourne, Victoria
The Broken Hill Proprietary Company,
Melbourne, Victoria
Central Norseman Gold Corp. Ltd.,
Norseman, Western Australia
Electrolytic Zinc Co. of A/asia Ltd.,
Melbourne, Victoria
Kalgoorlie Mining Associates,
Fimiston, Western Australia
Metals Exploration Ltd.,
Melbourne, Victoria
Mount Isa Mines Limited
Brisbane, Queensland
The Mount Lyell Mining & Railway Co.,
Ltd.,
Queenstown, Tasmania
Newmont Holdings Proprietary Ltd.,
Melbourne, Victoria
North Broken Hill Limited,
Melbourne, Victoria
Peko-Wallsend Limited
Sydney, New South Wales
Western Mining Corporation Ltd.,
Melbourne, Victoria
Woodlawn Mines,
Goulburn, New South Wales

BELGIUM

Compagnie Royale Asturienne des Mines
Brussels
Société des Mines et Fonderies de Zinc
de la Vieille-Montagne S.A.
Angleur

BOLIVIA

Asociación Nacional de Mineros Medianos
La Paz
Corporación Minera de Bolivia
La Paz

CANADA

ASARCO Incorporated
Buchans, Newfoundland
Black Hawk Mining, Ltd.,
Toronto, Ontario
COMINCO Limited.
Vancouver, British Columbia
Consolidated Professor Mines
Toronto, Ontario
Consolidated Rambler Mines
Saint John, New Brunswick
Dankoe Mines Limited
Toronto, Ontario
Dickenson Mines Limited
Toronto, Ontario
Dome Mines Limited
South Porcupine, Ontario
Echo Bay Mines Limited
Edmonton, Alberta
Energy, Mines & Resources Canada
Ottawa, Ontario
Equity Silver Mines Limited,
Vancouver, British Columbia
Inco Limited,
Toronto, Ontario
Kerr Addison Mines Limited,
Toronto, Ontario
Kidd Creek Mines Limited
Toronto, Ontario
Lamaque Mining Company 1964 Ltd.,
Val d'Or, Quebec
Mattabi Mines Limited,
Toronto, Ontario
Metallgesellschaft Canada Limited,
Toronto, Ontario
Mines Gaspé
Murdochville, Quebec
Newmont Mines Limited
Vancouver, British Columbia
Noranda Sales Corporation Limited,
Toronto, Ontario
Northgate Patiño Mines, Inc.
Chibougamau, Quebec
Pamour Porcupine Mines, Inc.
Timmins, Ontario
Regional Resources Limited,
Vancouver, British Columbia

continued...

CANADA Continued

Renzy Mines Limited,
North York, Ontario
Rio Algom Limited,
Toronto, Ontario
Selco Incorporated,
Toronto, Ontario
Sherritt Gordon Mines Limited,
Toronto, Ontario
Sigma Mines (Quebec) Limited,
Val d'Or, Quebec
Teck Corporation Limited,
Val d'Or, Quebec
Terra Mines Limited,
Edmonton, Alberta
United Keno Hill Mines Limited,
Toronto, Ontario
Utah Mines Ltd., Island Copper Mines,
Port Hardy, British Columbia
Westmin Resources Limited,
Vancouver, British Columbia

CHILE

Compañía Minera y Comercial
Sali Hochschild, S.A.
Santiago
Corporación Nacional del Cobre,
Santiago
Servicio Nacional de Geologia y Mineria
Santiago

DENMARK (Greenland)

Greenex A/S
Copenhagen

DOMINICAN REPUBLIC

Rosario Dominicana, S.A.,
Santo Domingo

ECUADOR

Dirección General de Geología y
Minas, Ministerio de Recursos
Naturales
Quito
Instituto Nacional de Estadística y
Censos
Quito

FINLAND

Outokumpu Oy
Helsinki

FRANCE

Mines et Produits Chimiques de Salsigne,
Paris
Société Minière et Métallurgique de
Peñarroya,
Paris

GERMAN FEDERAL REPUBLIC

Metallgesellschaft, AG,
Frankfurt
Preussag AG Metall,
Goslar

GHANA

Ashanti Goldfields Corporation (Ghana)
Limited,
Obuasi

GREECE

The Hellenic Chemical Products &
Fertilizers Co., S.A.
Athens

INDIA

Hindustan Copper Limited,
Calcutta
Hutti Gold Mines Company Limited,
Karnataka
Luxmi Traders,
Calcutta
Ministry of Steel and Mines, Indian
Bureau of Mines,
Nagpur

ITALY

SAMIM S.p.A.
Rome
SOLMINE S.p.A.
Rome

JAPAN

Hanawa Mines Company, Ltd.,
Tokyo
Japan Mining Industry Association,
Tokyo
Mitsubishi Metal Corporation,
Tokyo
Mitsui Mining & Smelting Co., Ltd.,
Tokyo
Nippon Mining Company, Ltd.,
Tokyo
Ohe Mines Company, Ltd.,
Tokyo
Shakanai Mines Company, Ltd.,
Tokyo
Toyoha Mines Company, Ltd.,
Tokyo

MEXICO

Campana de Plata, S.A.,
Zacualpán, México
Comisión de Fomento Minero
México, D. F.
Compañía Fresnillo, S.A.
México, D. F.
Compañía Minera La Negra y Anexas, S.A.
Maconi, Querétaro
Compañía de Real del Monte y
Pachuca, S.A.
Pachuca, Hidalgo
Grucat S.A. de C.V.
México, D. F.
Industrial Minera México, S.A.
México, D. F.
Industrias Luismin, S.A. de C.V.
México, D. F.
Industrias Peñoles, S.A. de C.V.
México, D. F.
La Encantada, S.A. de C.V.
Ocampo, Coahuila
Minas Nuruapán, S.A.
Palmarejo, Chihuahua
Minera Capela, S.A. de C.V.
Coalcomán, Michoacán
Minera Guadalupe, S.A.
Real de Guadalupe, Guerrero
Minera Mexicana Peñoles, S.A.
Topia, Durango
Minera Mexicana Sombrerete, S.A.
Sombrerete, Zacatecas
Minera Real de Angeles, S.A. de C.V.
Zacatecas, Zacatecas
Minera San Francisco del Oro, S.A.
México, D. F.
Minera Victoria Eugenia S.A.
Chalchihuites, Zacatecas
Minerales de Bolaños, S.A. de C.V.
Guadalajara, Jalisco
Restauradora de las Minas de
Catorce, S.A.
San Luis, Potosí
Rosario México, S.A. de C.V.
México, D. F.

MOROCCO

Société Minière du Djebel Aouam,
Casablanca
Société Minière de Touissit,
Touissit

NAMIBIA

Tsumeb Corporation Limited,
Tsumeb

NICARAGUA

CONDEMINA,
Managua

PAPUA NEW GUINEA

Bougainville Copper Ltd.,
Bougainville
New Guinea Goldfields Limited,
Sydney, N.S.W., Australia

PERU

Colquiminas, S.A.,
Lima
Compañía de Minas Buenaventura, S.A.,
Lima
Compañía Minera del Madrigal, S.A.,
Lima
Compañía Minera Huampar, S.A.,
Lima
Compañía Minera Katanga, S.A.,
Lima
Compañía Minera Raura, S..A,
Lima
Compañía Minera Santa Luisa, S.A.,
Lima
Empresa Minera del Centro del Perú,
Lima
Minera Los Andes, S.A.,
Arequipa
Minera Perla, S.A.
Arequipa
Northern Perú Mining Corporation,
Lima
Southern Perú Copper Corporation,
New York, New York, U.S.A.

PHILIPPINES

Apex Mining Company, Inc.
Pasig, Metro Manila
Atlas Consolidated Mining & Dev. Corp.,
Makati, Metro Manila
Atok Big-Wedge Mining Company, Inc.
Makati, Metro Manila
Basay Mining Corporation
Makati, Metro Manila
Benguet Corporation
Makati, Metro Manila
Benguet Exploration, Inc.
Makati, Metro Manila
Itogon-Suyoc Mines, Inc.
Manila
Lepanto Consolidated Mining Co., Ltd.,
Makati, Metro Manila
Manila Mining Corporation
Makati, Metro Manila
Marcopper Mines Corporation
Makati, Metro Manila
Marinduque Mining & Industrial Corp.
Makati, Metro Manila
Negros Occidental Copperfield Mines,
Inc.,
Makati, Metro Manila
North Davao Mining Corporation
Makati, Metro Manila
Philex Mining Corporation
Pasig, Metro Manila
Surigao Consolidated Mining Co., Inc.
Pasig, Metro Manila
Vulcan Industrial & Mining Corporation,
Metro Manila

SOUTH AFRICA

Barberton Mines,
Johannesburg
Blyvooruitzich Gold Mining Co., Ltd.,
Johannesburg
Bracken Mines Ltd.,
Johannesburg
Buffelsfontein Gold Mining Co., Ltd.,
Johannesburg
City Deep Limited,
Johannesburg
Consolidated Main Reef,
Johannesburg
Crown Mines, Ltd.,
Johannesburg
Deelkraal Gold Mining Co., Ltd.,
Johannesburg
Doorfontein Gold Mining Co., Ltd.,
Johannesburg
Durban Roodepoort Deep Ltd.,
Johannesburg
East Daggafontein Mines,
Johannesburg
East Driefontein Gold Mining Co., Ltd.,
Johannesburg
East Rand Proprietary Mines Ltd.,
Johannesburg
Elandsrand Gold Mining Co., Ltd.,
Johannesburg
Elsburg Gold Mining Co., Ltd.,
Johannesburg
Freddies Consolidated Mines Ltd.,
Johannesburg

continued...

SOUTH AFRICA Continued

Free State Geduld Mines, Ltd.,
Johannesburg
Free State Saaiplaas Gold Mining
Company, Ltd.,
Johannesburg
The Grootvlei Proprietary Mines Ltd.,
Johannesburg
Harmony Gold Mining Co., Ltd.,
Johannesburg
Hartebeestfontein Gold Mining
Company, Ltd.,
Johannesburg
Impala Platinum Limited,
Johannesburg
Kinross Mines Limited,
Johannesburg
Kloof Gold Mining Co., Ltd.,
Johannesburg
Leslie Gold Mines Limited,
Johannesburg
Libanon Gold Mining Co., Ltd.,
Johannesburg
Loraine Gold Mines, Ltd.,
Johannesburg
The Messina (Tvl.) Development
Company, Ltd.,
Johannesburg
Marievale Consolidated Mines, Ltd.,
Johannesburg
O'Kiep Copper Company, Ltd.,
Johannesburg
President Brand Gold Mining Co., Ltd.,
Johannesburg
President Steyn Gold Mining Co., Ltd.,
Johannesburg
Prieska Copper Mine (Pty) Ltd.,
Johannesburg
Randfontein Estates Gold Mining
Company, Ltd.,
Johannesburg
Rustenburg Platinum Mines, Ltd.,
Johannesburg
St. Helena Gold Mines, Ltd.,
Johannesburg
South African Land and Exploration
Company, Ltd.,
Johannesburg
Stilfontein Gold Mining Co., Ltd.,
Johannesburg
Unisel Gold Mining Co., Ltd.,
Johannesburg
Vaal Reefs Exploration and Mining
Company, Ltd.,
Johannesburg
Venterspost Gold Mining Co., Ltd.,
Johannesburg
Vlakfontein Gold Mining Co., Ltd.,
Johannesburg
Welkom Gold Mining Co., Ltd.,
Johannesburg
West Dreifontein Gold Mining
Company, Ltd.,
Johannesburg
Western Areas Gold Mining Co., Ltd.,
Johannesburg
Western Deep Levels, Ltd.,
Johannesburg
Western Holdings, Ltd.,
Johannesburg
Winkelhaak Mines, Ltd.,
Johannesburg
Witwatersrand Nigel Ltd.,
Johannesburg
West Rand Consolidated Mines Ltd.,
Johannesburg
Chamber of Mines of South Africa
Johannesburg

SWEDEN

Boliden Aktiebolag,
Stockholm

TAIWAN

Taiwan Metal Mining Corporation,
Taipei-Hsien

TUNISIA

Société Minière et Métallurgique
de Tunisie
Tunis

UNITED STATES

AMAX Incorporated
Greenwich, Connecticut
AMAX Lead & Zinc, Inc.
Clayton, Missouri
Amoco Metals Company
Englewood, Colorado
AMSELCO Minerals,
Denver, Colorado
Anaconda Minerals Company,
Denver, Colorado
ANAMAX Mining Company,
Sahuarita, Arizona
J. Aron & Company,
New York, New York
Asamera Minerals (U.S.) Inc.,
Sparks, Nevada
ASARCO Incorporated
New York, New York
Bunker Limited Partnership
Kellogg, Idaho
Callahan Mining Corporation,
Wallace, Idaho
Clayton Silver Mines,
Wallace, Idaho
Coeur d'Alene Mines Corporation,
Wallace, Idaho
Cominco American Incorporated,
Spokane, Washington
Consolidated Silver Corporation,
Wallace, Idaho
Copper Range Company,
Round Mountain, Nevada
Cortez Gold Mines,
Cortez, Nevada
DeLamar Silver Mines,
Jordan Valley, Oregon
Duval Sales Corporation,
Houston, Texas
Federal Resources Corporation,
Salt Lake City, Utah
Freeport Minerals Company,
New York, New York
The Goldfield Corporation
Melbourne, Florida
Hecla Mining Company,
Wallace, Idaho
Homestake Mining Company,
San Francisco, California
Inspiration Consolidated Copper Co.,
Phoenix, Arizona
Intermountain Exploration Company
Boulder City, Nevada
Kay Mining & Milling Corporation,
Las Vegas, Nevada
Kennecott Corporation,
Trumbull, Connecticut
Little Squaw Gold Mining Corporation,
Spokane, Washington
Navajo Minerals Company
San Francisco, California
Nerco Minerals Company
Fairbanks, Alaska
Newmont Mining Corporation,
New York, New York
Phelps Dodge Corporation,
New York, New York
Pinto Valley Copper Corporation,
Miami, Arizona
Ranchers Exploration and Development
Corporation
Albuquerque, New Mexico
St. Joe Minerals Corporation
New York, New York
Silver Ventures Corporation,
Rollinsville, Colorado
Smoky Valley Mining
Round Mountain, Nevada
Sunshine Mining Company,
Dallas, Texas
Thomas Consolidated Mines, Inc.
Spokane, Washington
U.S. Bureau of Mines
Washington, D. C.
White Pine Copper Division
White Pine, Michigan

ZAIRE

GECAMINES
Lubumbashi

ZAMBIA

Central Statistical Office
Lusaka
Zambia Consolidated Copper Mines Ltd.,
Kabwe

ZIMBABWE

Rio Tinto Zimbabwe,
Harare